

GOVERNMENT NOTICES.

DEPARTMENT OF PUBLIC WORKS.
SALE OF TOLL FARM.—The public attention is called to the notice in the GOVERNMENT GAZETTE respecting the sale of TOLL FARM under the Department of Public Works, for the year 1873.

The notice is published in the GOVERNMENT GAZETTE, and may be seen at every Post and Office throughout the colony.
 General conditions to be seen on application to the Clerk of the Public Works.

MAIL CONVEYANCE.
 TENDERS will be received at this office, and at the office of the Agent-General for the colony in London, up to noon on WEDNESDAY, the 20th November next, for the conveyance of Mails between Sydney and San Francisco, once in every four weeks.

Terms of tender and conditions of agreement, and all other information, can be obtained on application at this office, and at the office of the Agent-General in London.
GEO. A. LLOYD.

DEPARTMENT OF PUBLIC WORKS.
 Sydney, 17th October, 1872.

TENDERS FOR PUBLIC WORKS AND SUPPLIES.—Tenders are invited for the following Public Works and Supplies:—

GOVERNMENT GAZETTE.—A file of which is kept at every Police-office in the colony.

Tenders may be made by the tenderers at any time, and the successful tenderer will be announced, if possible, before the date of the Board of the Public Works.

The tender will be taken into consideration unless the terms of the notice are strictly complied with.

The Government does not bind itself to accept the lowest or any tender.

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BOULBOONDA COPPER MINING CO., QUEENSLAND.

TO THE EDITOR OF THE HERALD.
 Sir,—We, the undersigned, are shareholders and scrip-holders in the above Company, the half-yearly meeting of which is to be held in Sydney on the 1st instant. In fairness to us and many other persons in this colony who are shareholders in the said mine, there ought to be time given for the registration of our scrip and for the consideration of the directors' report and accounts before the meeting takes place. No notice was commenced under false pretences, and the object in no other mine has been so depressed. It is therefore highly desirable that the fullest information should be given to all interested, and such time allowed for shareholders at a distance to pass their judgments as to prevent any charge of unfairness being made against the directors; and enable them to exercise a voice in the choice of officers if it should be deemed desirable to do so.

We think that, under the circumstances, it would be well to adjourn the meeting for a month or six weeks, in order to give the shareholders in this colony a voice in the proceedings. May we ask your advocacy of our cause?

We are, Sir, Yours, &c.

JOHN O. THOMPSON.

WILLIAM THORNTON.

J. AND J. YOUNG.

JOHN F. BUCKLAND.

Brisbane, 24th October, 1872.

ST. JOSEPH'S INVESTMENT AND BUILDING SOCIETY.

NOTICE TO SHAREHOLDERS.

DIVIDENDS will be payable at the office, 92, RUSSELL-STREET, on THURSDAY, 31st October, and on TUESDAY, 5th November. Shareholders are requested to attend on the day specified, or to send in at least two days previously, or dividends will not be paid until next application day.

October 29, 1872.

COPPER ORES AND REGULUS.

THE SMELTING WORKS OF THE ENGLISH AND AUSTRALIAN COPPER COMPANY (LIMITED), adjoining the New London Colliery, being now in full operation. The Company is prepared to purchase ORES and REGULUS in ANY QUANTITIES at higher NET prices than can be obtained EITHER BY SELLING OR BY SMELTING. (Under the most favorable circumstances) by LOCAL SMELTING.

ORES and REGULUS will be RECEIVED, WHEATHELD, and SMELTED, at the Company's Store, 67, LOWER GEORGE-STREET, SYDNEY, or elsewhere, to suit the convenience of sellers. The terms of sale and PAYMENTS MADE within seven days of date of sampling.

Advances may be obtained on Produce in transit.

Communications to be addressed to the Company, or to Mr. G. R. DIBBS, FITZ-STREET, SYDNEY, or to the undersigned.

S. N. VALE, SUPERINTENDENT NEW LONDON COPIES, WAREHOUSE, near NEWCASTLE, N. S. W.

Agents for—

The Ruby Tin Mining Company

Ruby Creek ditto ditto

Glen Innes ditto ditto

Cherry Creek ditto ditto

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IN THE SUPREME COURT OF NEW SOUTH WALES.

DECLARATION OF JUDGMENT.
 In the goods of WILLIAM THIRKELL, late of Charlton, in the county of Kent, in that part of Great Britain called England, formerly of Hill Road, in the colony of New South Wales, Merchant, deceased.
NOTICE is hereby given, that, after the expiration of fourteen days from the publication of this notice in the GOVERNMENT GAZETTE, application will be made to His Honor the Chief Justice, in the Ecclesiastical Jurisdiction, that Letters of Administration of all and singular the goods, chattels, credits, and effects of the above-named deceased, may be granted to WILLIAM GEORGE THIRKELL, of Sydney, in the colony of New South Wales, a son of the said deceased.

Filed at the Court on the 25th day of October, A.D. 1872.

JOHN DAWSON, Proctor for the said William George Thirkell. 136, Pitt-street, Sydney.

SUPREME COURT INJUNCTION.

In the matter of WOLFE'S AROMATIC SCHNAPPS.

WHEREAS, A PERPETUAL INJUNCTION has been granted by the SUPREME COURT of New South Wales restraining the defendants, J. R. CATTELL AND ANOTHER, under a FENALTY of \$20,000, from the importation and sale of certain imitations of WOLFE'S AROMATIC SCHNAPPS, in bottles, or in wrappers or labels, exhibited in evidence, and bearing the name of "KIDDERLEN." NOW, therefore, we, the undersigned, in virtue of the power so conferred, do hereby caution all persons against buying, selling, or using such imitations in any way.

THE WRIT OF INJUNCTION COMPELLING THE ABOVE STATEMENTS MAY BE ENFORCED BY THE COURT OF THE COUNTY OF NEW SOUTH WALES.

EDWARD J. RUBIN, Manager.

ALLIANCE INVESTMENT AND BUILDING SOCIETY.

A SALE of the right to receive advance upon Shares was made at the General Meeting of the Society, on MONDAY, the 11th November next, at half-past 3 p.m.

By order of the Board of Directors,
J. R. TERRY, Secretary.

ALLIANCE INVESTMENT AND BUILDING SOCIETY.

NOTICE is hereby given, that in accordance with Rule VI, Section 10, a distribution by Ballot of unrepaid Shares will take place at the Society's Office, Mortimer's Buildings, Pitt-street, on MONDAY, the 11th November next, at half-past 3 p.m.

By order of the Board of Directors,
J. R. TERRY, Secretary.

ST. JOHN'S BOWITT BUILDING SOCIETY, No. 1.

A BALLOT for \$300 THIS EVENING, at 7.30 p.m.

W. J. CLARKE, Secretary.

ATTENTION is directed to the MOGO QUARRY, in 2400 shares of £1 each; all shareholders equal, no preference interest. Prospectus at Mr. G. BAUGH'S, 312, George-street.

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SPECIAL ADVERTISEMENTS

coveries, or obliterate the name of LIVINGSTONE, or cease to mention with honour the efforts made for his safety and restoration.

THE *Edinburgh Review* has made a laudable attempt to popularise a subject that should be understood by the heads of every family. An intelligible view is offered of the researches on Life and Disease which have engaged and are engaging the most sagacious physiologists of our time, not that the discoverers themselves do not represent their explorations intelligibly, but that the truths found by many seekers are brought together, and shown in their application to daily life.

Since men began to conjecture concerning

the physical basis of life manifold have been the theories put forth, but until the microscope enabled theory to be tested by fact, these conjectures were mostly of little attention. Since this instrument has been brought into play the conclusion has been maturing that there is one kind of matter, which is common to all living things, and that their endless diversities are based together by a physical principle as well as an ideal unity. If the blood be drawn by picking one's finger, and viewed with proper precautions, and under a sufficiently high microscopic power, there will be seen, among the innumerable multitudes of little circular discoidal bodies, or corpuscles, which float in it, and give it its colour, a compar-

tively small number of colourless corpuscles, of somewhat larger size, and very irregular shape. If the drop of blood be kept at the temperature of the body, these colourless corpuscles will be seen to exhibit a marvellous activity, changing their forms with great rapidity, drawing in and thrusting out prolongations of their substance, and creeping about as if they were independent organisms. Corpuscles of essentially similar structure are to be found throughout the whole frond of the animal vegetable life. Various modified, they appear to be the structural units of all organisms. Each separate corpuscle is itself individually

made up of parts or particles, that can just be discerned under the highest powers of the microscope, and these parts are made up of other constituent parts, wholly indiscernible. Neither can the material substance in which the special changes are brought about that convert dead matter into living matter, be seen by human eyes.

The practical effect of research has been to afford us such information respecting the office of the blood in supporting life in the body as may enable us more frequently to avoid risk to the health, and to lay down sounder sanitary laws for communities. The complex material

with which physiologists have to deal in examining blood is found in three forms: first, that which is known as food substance, or nutritive material; second, living substance, formative material, which has been endowed with absolute vitality; and thirdly, formed substance, the final result of vital operation, not itself alive, but which has been formed by the process of living elaboration, and which can only be formed in that way." It is interesting to trace the manner in which the formative matter in these different states fulfils its office, and the relationship that subsists between the colourless and the coloured corpuscle. Those who are unimformed

on this subject, when speaking of blood, mean the crimson liquid that flows from a severed vein. They are not aware that by far the largest portion of the blood is colourless, and that some part of the colourless portion has perhaps the highest function to perform. The business of the corpuscle in the arterial stream is better understood. It acts as a carrier of influence. It rouses and sustains vital energy and power. It conveys from the lungs the aerial influence—the oxygen—which enters there in the act of respiration, and bears it to the minute capillary channels of the circulation, where its chemical effect has to be exerted on the evolution

of animal warmth, or blood-heat. "The particular powers of muscle, nerve, and brain—are unquestionably stimulated and maintained in their fullest energy and perfection by the instrumentality of the red corpuscles." From this it may be implied that a large portion of the formative matter is gas. About half its volume consists of gas—one-third of oxygen, two-thirds of carbonic acid.

"The little red corpuscles. Not only does the little red carrier convey oxygen from the lungs to the capillaries, but it brings back the poisonous carbonic acid gas generated in the capillary extremities for discharge from the system. Such being the case it is easily under-

stood that whatever interferes with the free and easy flow of these bodies along the channels constructed for them constitutes disease. Any change in its own state will prevent its currency, and promote that confusion which is quickly perceptible. The microscope reveals the stagnation which is caused by the derangement of the blood. It is thus described:—"As the stagnation in the affected part becomes more decided and more pronounced, the heart augments the force of its stroke in the endeavor to overcome the resistance, and under this increase of injecting force the fine walls of the delicate vessels rigid, so that their internal channels

become enlarged and dilated. In cases of extreme mischief they even give way, and the rapidly growing aggregations of clotted blood plasma gather outside and around the proper channels of the blood flow as well as within them. There is then swelling in the affected part, in consequence of the stagnation and unnatural engorgement; there is pain in consequence of the way in which the unnatural aggregations and engorgements press upon the nerves. There is also increased heat, *inflammation*, which, for a long time, was conceived to be actual *composition* of texture under the influence of more rapid flow of the blood.

having become either sluggish or stagnant, the abnormally increased supply of heat is not carried away, but remains accumulating in the part, and giving rise to the burning temperature which provides the derangement with a name." When the stagnation, instead of being localised, occurs throughout the body, its effects are denominated fever. Fevers are due to several causes; but all indicate an interference with the circulation of the blood. Sometimes too much of the plastic principle is supplied from the food to the blood, and sometimes too much of certain effete and contaminating principles are allowed. We have not by

space for the interesting description given by Dr. BEAL of what takes place when disease germs are brought into contact with the blood; but it may be desirable to quote his conclusion:— "Without—therefore, venturing to state positively from what particular kinds of germinal or living matter of the body the germs of contagious disease are actually derived, or attempting to decide definitely whether they come from the very minute bioplasts, or from ordinary white blood corpuscles, or mucus, or epithelium, or other

